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(57) Abstract:

PURPOSE: To extend the life of a catalyst containing manganese and copper and having ozone decomposing powder and to eliminate the need for exchanging the catalyst for a long period of time by disposing a filter deposited with said catalyst on the down stream of a dust collecting unit of an ion wind type air cleaner.

CONSTITUTION: An ionization unit 1, the dust collecting unit 2, a honeycomb filter 3 for ozone decomposition on the air down stream side, a honeycomb filter 4 on the air upper stream side and a powder source unit 5 are housed in a casing 6 of the air cleaner for automotive and household uses. The honeycomb filter 3 is formed with the catalyst layer on which a powder mixture composed of about 40W60wt% manganese powder and 60W40wt% copper powder is adhered and deposited by a binder. Said filter has the ozone decomposing powder. The metallic catalyst, therefore, acts as an electron transfer catalyst for the ozones generated by a high voltage to decompose the ozones. The catalyst restores the initial performance after a specified period and decomposes the ozones again.

